

TRI On-site and Off-site Releases, New Industries compared to Original Industries, 1998

	Original Industries Number	New Industries Number	Total Number	Percent of Total Percent	New Industries as Percent of Total Percent
Total Facilities	21,517	1,970	23,487		8.4
Total Forms	72,074	15,255	87,329	100.0	17.5
Form Rs	61,234	12,567	73,801	84.5	17.0
Form As	10,840	2,688	13,528	15.5	19.9
	Pounds	Pounds	Pounds	Percent	Percent
<u>On-site Releases</u>					
Total Air Emissions	1,256,951,444	796,550,006	2,053,501,450	28.1	38.8
Fugitive Air Emissions	292,504,215	6,983,226	299,487,441	4.1	2.3
Point Source Air Emissions	964,447,229	789,566,780	1,754,014,009	24.0	45.0
Surface Water Discharges	223,365,762	8,074,161	231,439,923	3.2	3.5
Underground Injection	210,639,389	56,677,417	267,316,806	3.7	21.2
Class I Wells	210,544,864	23,425,024	233,969,888	3.2	10.0
Class II-V Wells	94,525	33,252,393	33,346,918	0.5	99.7
On-site Land Releases	355,674,874	3,955,141,581	4,310,816,455	59.0	91.7
RCRA Subtitle C Landfills	15,339,494	197,617,507	212,957,001	2.9	92.8
Other On-site Landfills	99,730,347	162,677,586	262,407,933	3.6	62.0
Land Treatment	5,210,603	1,313,197	6,523,800	0.1	20.1
Surface Impoundments	90,237,471	1,289,578,793	1,379,816,264	18.9	93.5
Other Disposal	145,156,959	2,303,954,498	2,449,111,457	33.5	94.1
Total On-site Releases	2,046,631,469	4,816,443,165	6,863,074,634	93.9	70.2
<u>Off-site Releases</u>					
Storage Only*	11,749,488	2,746,021	14,495,509	0.2	18.9
Solidification/Stabilization -**	42,828,884	5,801,573	48,630,457	0.7	11.9
Metals and Metal Compounds Only					
Wastewater Treatment (excluding POTWs) -***	3,992,958	114,693	4,107,651	0.1	2.8
Metals and Metal Compounds Only					
Transfers to POTWs -****	3,045,974	493,189	3,539,163	0.0	13.9
Metals and Metal Compounds Only					
Underground injection	13,382,660	334,945	13,717,605	0.2	2.4
Landfills/Surface Impoundments	212,635,847	78,974,401	291,610,248	4.0	27.1
Land Treatment	1,326,956	495,175	1,822,131	0.0	27.2
Other Land Disposal	15,597,579	11,328,044	26,925,623	0.4	42.1
Other Off-site Management	9,816,029	10,520,218	20,336,247	0.3	51.7
Transfers to Waste Broker for Disposal	14,052,361	673,476	14,725,837	0.2	4.6
Unknown*****	3,784,392	567,726	4,352,118	0.1	13.0
Total Off-site Releases	332,213,128	112,049,461	444,262,589	6.1	25.2
(Transfers Off-site to Disposal)					
Total On- and Off-site Releases	2,378,844,597	4,928,492,626	7,307,337,223	100.0	67.4

Note: On-site Releases from Section 5 of Form R. **Off-site Releases** are from Section 6 (transfers off-site to disposal) of Form R.

Off-site Releases include metals and metal compounds transferred off-site for solidification/stabilization and for wastewater treatment, including to POTWs.

Off-site Releases do not include transfers to disposal sent to other TRI facilities that reported the amount as an on-site release.

Facilities/forms are included in the original industry category if they did not report a new industry SIC code.

Facilities/forms are included in the new industry category if the facility/form has a new industry SIC code and no SIC code in 20-39.

If the facility reported in any year prior to 1998 and the facility/form has a combination of original and new industry SIC codes, then the facility/form is included in the original industry category.

If the facility reported for the first time in 1998 and the facility/form has a combination of original and new industry SIC codes, then the facility/form is included in the new industry category.

One facility, Cyprus Miami Mining in Claypool, AZ, that reported under SIC code 33 and SIC code 10 in 1998 and previous years has been included in the new industry category SIC code 10 for the purpose of this analysis.

* "Storage only" (disposal code M10) indicates that the toxic chemical is sent off-site for storage because there is no known disposal method. Amounts reported as transferred to "storage only" are included as a form of disposal (off-site release).

** Beginning in reporting year 1997, transfers to solidification/stabilization of metals and metal compounds (waste treatment code M41) are reported separately from transfers to solidification/stabilization of non-metal TRI chemicals (waste treatment code M40). Because this treatment method prepares a metal for disposal, but does not destroy it, such transfers are included as a form of disposal (off-site release). Reports under code M40 of metals and metal compounds have been included in solidification/stabilization of metals and metal compounds in this report.

*** Beginning in reporting year 1997, transfers to wastewater treatment (excluding POTWs) of metals and metal compounds (waste treatment code M61) are reported separately from transfers to wastewater treatment of non-metal TRI chemicals (waste treatment code M60). Because wastewater treatment does not destroy metals, such transfers are included as a form of disposal (off-site release). Transfers of metals and metal compounds reported under code M60 have been included in transfers of metals metal compounds to wastewater treatment.

**** Reported as discharges to POTWs in Section 6.1 of Form R. EPA considers transfers of metals and metal compounds to POTWs as an off-site release because sewage treatment does not destroy the metal content of the waste material.

***** "Unknown" (disposal code M99) indicates that a facility is not aware of the type of waste management used for the toxic chemical that is sent off-site. Amounts reported as "unknown" transfers are treated as a form of disposal (off-site release).

Users of TRI information should be aware that TRI data reflect releases and other waste management of chemicals, not exposures of the public to those chemicals.

Release estimates alone are not sufficient to determine exposure or to calculate potential adverse effects on human health and the environment. TRI data, in conjunction with other information, can be used as a starting point in evaluating exposures that may result from release and other waste management activities which involve toxic chemicals.